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[For full information concerning the filling out of this form refer to Article 4 of Rules and Regulations Pertaining to Appropriation of Water]

STATE OF CALIFORNIA—STATE WATER RIGHTS BOARD

Application No. 18086 Filed April 8, 1958, at 10:51 A. M.
(Applicant must not fill in the above blanks)

APPLICATION TO APPROPRIATE UNAPPROPRIATED WATER

I, Placer County Water Agency
Name of applicant or applicants

of Auburn County of Placer
Address

State of California, do hereby make application for a permit to appropriate the following described unappropriated waters of the State of California, *SUBJECT TO VESTED RIGHTS:*

Source, Amount, Use and Location of Diversion Works

1. **The source** of the proposed appropriation is See Supplement
Give name of stream, lake, etc., if named; if unnamed state nature of source and that it is unnamed

Placer and
located in El Dorado County, tributary to See Supplement

2. **The amount of water** which applicant desires to appropriate under this application is as follows:

(a) For diversion to be directly applied to beneficial use See Supplement cubic feet per second
1 cubic foot per second equals 40 statute miner's inches or 646,317 gallons per day

to be diverted from January 1 to December 31 of each year.
Beginning date Closing date

(b) For diversion to be stored and later applied to beneficial use See Supplement acre-feet per annum
1 acre-foot equals 325,851 gallons

to be collected between November 1 and July 1 of each season.
Beginning date Closing date

NOTE.—Answer *(a)* or *(b)* or both *(a)* and *(b)* as may be necessary. If amount under *(a)* is less than .025 cubic foot per second, state in gallons per day. Neither the amount nor the season may be increased after application is filed. If underground storage is proposed a special supplemental form will be supplied by the State Water Rights Board upon request.

3. **The use** to which the water is to be applied is Power and Recreational
Domestic, irrigation, power, municipal, mining, industrial, recreational

purposes.

4. **The point of diversion** is to be located See Supplement
State bearing and distance or coordinate distances from section or quarter section corner

being within the
State 40-acre subdivision of public land survey or projection thereof

of Section , T. , R. , B. & M., in the County of

5. **The main conduit** terminates in NW¼ of NW¼ of Sec. 3, T. 13N, R. 11E, M.D. B. & M.
State 40-acre subdivision of U. S. Government survey or projection thereof

Description of Diversion Works

NOTE.—An application cannot be approved for an amount grossly in excess of the estimated capacity of the diversion works.

6. **Intake or Headworks** (fill only those blanks which apply)

(a) Diversion will be made by pumping from
Sump, offset well, unobstructed channel, etc.

(b) Diversion will be by gravity, the diverting dam being See Supplement feet in height (stream bed to level of overflow); feet long on top; and constructed of
Concrete, earth, brush, etc.

(c) The storage dam will be See Supplement feet in height (stream bed to spillway level); feet long on top; have a freeboard of feet, and be constructed of
Concrete, earth, etc.

7. Storage Reservoir See Supplement
Name

The storage reservoir will flood lands in
Indicate section or sections, also 40-acre subdivisions unless shown upon map

It will have a surface area of acres, and a capacity of acre-feet. If reservoir has a capacity of 25 acre-feet or more fill in the following: Diameter of outlet pipe inches; length feet; difference in elevation from spillway level to highest point of outlet pipe feet; fall in pipe feet.

☞ In case of insufficient space for answers in form, attach extra sheets at top of page 3 and cross reference.

8. **Conduit System** (describe main conduits only)

(a) Canal, ditch, flume: Width on top (at water line) See Supplement feet; width at bottom _____ feet; depth of water _____ feet; length _____ feet; grade _____ feet per 1,000 feet; materials of construction _____
Cross out two not used — Earth, rock, timber, etc.

(b) Pipe line: Diameter See Supplement inches; length _____ feet; grade _____ feet per 1,000 feet; total fall / lift from intake to outlet _____ feet; kind _____
Riveted steel, concrete, wood-stave, etc.

NOTE.—If a combination of different sizes or kinds of conduit is to be used, attach extra sheets with complete description, also show location of each clearly on map.

9. **The estimated capacity** of the diversion conduit or pumping plant proposed is See Supplement
State cubic feet per second or gallons per minute

The estimated cost of the diversion works proposed is $ 99,676,000
Give only cost of intake, or headworks, pumps, storage reservoirs and main conduits described herein

Completion Schedule

10. **Construction work** will begin on or before July 1, 1965

Construction work will be completed on or before July 1, 1975

The water will be completely applied to the proposed use on or before July 1, 1975

Description of Proposed Use

11. **Place of Use.** See Supplement
State 40-acre subdivisions of the public land survey. If area is unsurveyed indicate the location as if lines of the public land survey were projected. In the case of irrigation use state the number of acres to be irrigated in each 40-acre tract, if space permits. If space does not permit listing of all 40-acre tracts, describe area in a general way and show detail upon map.

Do(es) applicant(s) own the land whereon use of water will be made? No (Yes or No) Jointly? _____ (Yes or No)
All joint owners should include their names as applicants and sign application at bottom of third page.

Power Plants will be on National Forest or privately owned lands. Use permits will be obtained for National Forest lands. Private lands will be purchased or condemned.
If applicant does not own land whereon use of water will be made, give name and address of owner and state what arrangements have been made with him.

12. **Other Rights.** Describe all rights except those on file with the State Water Rights Board under which water is served to the above named lands.

Nature of Right (riparian, appropriative, purchased water, etc.)	Year of First Use	Use made in recent years including amount if known	Season of Use	Source of Other Supply
1.				
2.				
3.				
4.				

Attach supplement at top of page 3 if necessary.

13. **Irrigation Use.** The area to be irrigated is _____ acres.
State net acreage to be irrigated

The segregation of acreage as to crops is as follows: Rice _____ acres; alfalfa _____ acres; orchard _____ acres; general crops _____ acres; pasture _____ acres.

NOTE.—Care should be taken that the various statements as to acreage are consistent with each other, with the statement in Paragraph 11, and with the map.

The irrigation season will begin about _____ (Beginning date) and end about _____ (Closing date)

14. **Power Use.** The total fall to be utilized is See Supplement feet.
Difference between nozzle or draft tube water level and first free water surface above

The maximum amount of water to be used through the penstock is See supplement cubic feet per second.

The maximum theoretical horsepower capable of being generated by the works is See Supplement horsepower.
Second feet × fall ÷ 8.8

The use to which the power is to be applied is To be sold at wholesale
For distribution and sale or private use, etc.

The nature of the works by means of which power is to be developed is See Supplement
Turbine, Pelton wheel, etc.

The size of the nozzle to be used is _____ inches.

The water will be returned to Middle Fork American River (Name stream) in NW¼ of NW¼ (State 40-acre subdivision) of

Sec. 3 T. 13N R. 11E M. D. B. & M.

APPLICANT MUST NOT FILL IN BLANKS BELOW

PERMIT No. 13857

This is to certify that the application of which the foregoing is a true and correct copy has been considered and approved by the State Water Rights Board SUBJECT TO VESTED RIGHTS and the following limitations and conditions:

1. The amount of water appropriated shall be limited to the amount that can be beneficially used and shall not exceed, (a) 50 cfs by direct diversion, year-round, from Duncan Creek, (b) 110 cubic feet per second by direct diversion, year-round, and 10,000 acre-feet by storage from about November 1 of each year to about July 1 of the succeeding year from Middle Fork American River at French Meadows Reservoir, (c) 155 cfs by direct diversion, year-round, and 36,000 af by storage from about November 1 of each year to about July 1 of the succeeding year from Rubicon River at Hell Hole Reservoir, (d) 13,000 af by off-stream storage from about November 1 of each year to about July 1 of the succeeding year from South Fork Long Canyon, at a maximum rate of diversion of 830 cfs to be stored at Hell Hole Reservoir, (e) 7,000 af by off-stream storage from about November 1 of each year to about July 1 of the succeeding year from North Fork Long Canyon, at a maximum rate of 830 cfs to be stored at Hell Hole Reservoir, (f) 705 cfs by direct diversion, year-round, from Middle Fork American River at Ralston Afterbay. (0000005)

2. The maximum amount of water to be diverted to storage under this permit and permits issued pursuant to Applications 18084, 18085 and 18087 during any one season shall not exceed (a) 133,700 acre-feet at French Meadows Reservoir and (b) 208,400 acre-feet at Hell Hole Reservoir. (0000114)

3. The maximum amount herein stated may be reduced in the license if investigation warrants. (0000006)

4. Actual construction work shall begin on or before September 1, 1963, and shall thereafte be prosecuted with reasonable diligence, and if not so commenced and prosecuted, this permit may be revoked. (0000007)

5. Construction work shall be completed on or before December 1, 1967. (0000008)

6. Complete application of the water to the proposed use shall be made on or before December 1, 2007. (0000009)

7. Progress reports shall be filed promptly by permittee on forms which will be provided annually by the State Water Rights Board until license is issued. (0000010)

8. All rights and privileges under this permit, including method of diversion, method of use, and quantity of water diverted are subject to the continuing authority of the State Water Rights Board in accordance with law and in the interest of the public welfare to prevent waste, unreasonable use, unreasonable method of use, or unreasonable method of diversion of said water. (0000012)

9. This permit is subject to the prior rights of any county in which the water sought to be appropriated originates to the use of such water as may be necessary for the development of such county as provided for in Section 10505 of the Water Code. (0000999)

10. To the extent that their provisions relate to matters within the jurisdiction of the State Water Rights Board, this permit is subject to stipulations and agreements between the permittee and the California Department of Fish and Game, dated July 20, 1962, San Juan Suburban Water District et al., dated May 21, 1962, Sacramento Municipal Utility District, dated May 21, 1962 and the City of Sacramento, dated May 21, 1962, which were filed for record at the hearing on Applications 18084, 18085, 18086, and 18087 as Placer County Water Agency's Exhibits 19, 20, 21, and 22, respectively. (0430999)

11. This permit does not authorize collection of water to storage during the period outside of the collection seasons specified in Paragraph 1, to offset evaporation or seepage losses or for any other purpose. (0000051)

13857

12. Permittee shall allow representatives of the State Water Rights Board and other parties as may be authorized from time to time by said Board reasonable access to project works to determine compliance with the terms of this permit. (0000011)

13. In accordance with requirements of Water Code Section 1393, permittee shall clear the site of each of the proposed reservoirs of all structures, trees, and other vegetation which would interfere with the use of the reservoir for water storage and recreational purposes. (0120960)

14. This permit is subject to compliance by permittee with Section 10504.5(d) of the Water Code. (0330999)

15. Separate applications for the approval of plans and specifications for construction of the dams described in this approved water right application shall be filed with and approved by the Department of Water Resources prior to commencement of construction of the dams. (0360048)

This permit is issued and permittee takes it subject to the following provisions of the Water Code:

Section 1390. A permit shall be effective for such time as the water actually appropriated under it is used for a useful and beneficial purpose in conformity with this division (of the Water Code), but no longer.

Section 1391. Every permit shall include the enumeration of conditions therein which in substance shall include all of the provisions of this article and the statement that any appropriator of water to whom a permit is issued takes it subject to the conditions therein expressed.

Section 1392. Every permittee, if he accepts a permit, does so under the conditions precedent that no value whatsoever in excess of the actual amount paid to the State therefor shall at any time be assigned to or claimed for any permit granted or issued under the provisions of this division (of the Water Code), or for any rights granted or acquired under the provisions of this division (of the Water Code), in respect to the regulation by any competent public authority of the services or the price of the services to be rendered by any permittee or by the holder of any rights granted or acquired under the provisions of this division (of the Water Code) or in respect to any valuation for purposes of sale to or purchase, whether through condemnation proceedings or otherwise, by the State or any city, city and county, municipal water district, irrigation district, lighting district, or any political subdivision of the State, of the rights and property of any permittee, or the possessor of any rights granted, issued, or acquired under the provisions of this division (of the Water Code).

Dated: JAN 10 1963

STATE WATER RIGHTS BOARD

L. K. Hill

L. K. Hill
Executive Officer

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DO NOT WRITE IN THIS SPACE
ATTACH EXTRA SHEETS HERE

15. **Municipal Use.** This application is made for the purpose of serving ____________ (Name city or cities, town or towns. Urban areas only)

____________ having a present population of ____________

The estimated average daily consumption during the month of maximum use at the end of each five-year period until the full amount applied for is put to beneficial use is as follows:

____

16. **Mining Use.** The name of the mining property to be served is ____________ (Name of claim)

____________ and the nature of the mines is ____________ (Gold placer, quartz, etc.)

The method of utilizing the water is ____________

It is estimated that the ultimate water requirement for this project will be ____________ (Cubic feet per second, gallons per minute. State basis of estimate)

The water will / will not be polluted by chemicals or otherwise ____________ (Explain nature of pollution, if any)

and it will / will not be returned to ____________ (Name stream) in ____________ (State 40-acre subdivision) of

Sec. ________, T. ________, R. ________, ________ B. & M.

17. **Other Uses.** The nature of the use proposed is recreational (Industrial, recreational, domestic, stockwatering, fish culture, etc.)

State basis of determination of amount needed. Recreational use on and in the vicinity of the proposed reservoirs is contemplated. (Number of persons, residences, area of domestic lawns and gardens, number and kind of stock, type industrial use, and unit requirements)

General

18. Are the maps as required by the Rules and Regulations filed with Application? Yes (Yes or No) If not, state specifically the time required for filing same ____________

19. Does the applicant own the land at the proposed point of diversion? No (Yes or No). If not, give name and address of owner and state what steps have been taken to secure right of access thereto See paragraph 11

20. What is the name of the post office most used by those living near the proposed point of diversion?

Auburn, California

21. What are the names and addresses of claimants of water from the source of supply below the proposed point of diversion?

U. S. Bureau of Reclamation

City of Sacramento

Others not known

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[SIGNATURE OF APPLICANT] /s/ Placer County Water Agency
Chairman Board of Directors

Supplement to Application 18086

Paragraph 11 - Place of Use

Ref. No.	Name of Powerplant	LOCATION (Mount Diablo B & M) Quarters	Section	Township	Range
3	French Meadows	NE of SE	9	14N	14E
5	Middle Fork	NW of NW	36	14N	12E
6	Ralston	NW of SW	2	13N	11E
6	Oxbow (Regulator)	NW of NW	3	13N	11E

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Paragraph 14 - Power Use**

Ref. No.	Name of Powerplant	Total Fall (feet)	Amount of Water c.f.s.	Maximum Theoretical H.P.	Nature of Works to Develop Power
3	French Meadows	655	400	29,773*	Reaction Turbine
5	Middle Fork	2,096	830	197,690***	Impulse Turbine**
6	Ralston	1,369	830	128,650	Impulse Turbine**
6	Oxbow (Regulator)	85	1930	18,642	Variable Pitch Reaction
				374,755	

* Fall and c.f.s. are not simultaneous, therefore this is a distorted value.
** Designs not sufficiently developed to select nozzle sizes, combinations, etc.
*** Former Hell Hole and Middle Fork combining 56,365 + 141,307 = 197,672.

Supplement to Application 18086

Paragraphs 8(a) and 9 - Conduit System and Capacities

FROM	TO	Distance Miles	Section	Size (feet)	Type	Slope (Invert Gradient)	Capacity c.f.s.
Duncan Creek Diversion Duncan Creek	French Meadows Res M.F. American River	1.49	Tunnel Horseshoe (unlined)	9x10	Flowline	0.0018	400
French Meadows Res. M.F. American River	French Meadows P. P. Rubicon River	2.78	Tunnel Horseshoe (unlined)	12.5x12.5	Pressure	0.0040	400
Hell Hole Reservoir Rubicon River	Long Canyon Diversion S. F. Long Canyon	3.29	Tunnel Horseshoe (unlined)	13.25x13.25	Pressure	0.0045	830
Long Canyon Diversion S.F. Long Canyon	Long Canyon Diversion N.F. Long Canyon	0.59	Tunnel Horseshoe (unlined)	13.25x13.25	Pressure	0.0045	830
Long Canyon Diversion N.F. Long Canyon	M.F. Power Plant M.F. American River	6.54	Tunnel Horseshoe (unlined)	13.25x13.25	Pressure	0.0045 & 0.0059	830
Ralston Interbay	Ralston Power Plant	5.14	Tunnel Horseshoe	13.25x13.25	Pressure	0.0060	830
[illegible].F. American River	Rubicon River	1.56	Horseshoe	10.58x11.42	Pressure	0.0060	830
M.F. American River	M.F. American River	0.27	Tunnel Horseshoe	16.0x16.0	Pressure		1930

Supplement to Application 18086

Paragraph 7 - Storage Reservoirs

Ref. No	Stream	Reservoir	Flood Lands in	Surface Area Acres	Capacity Acre-feet
	M.F. American River	French Meadows	See Map	1418	133,700
	Rubicon River	Hell Hole	See Map	1245	208,400

Supplement to Application 18086

Paragraph 6 - Intake or Headworks

Ref. No.	Stream	Name of Dam	Dimensions (feet) Height	Length	Freeboard	Material
	Par - 6(b) - Diversion Dams					
1	Duncan Creek	Duncan Creek Diversion	32	188	10	Concrete
4a	S.F. Long Canyon	Long Canyon Diversion	37	230	7.5	Concrete
4b	N.F. Long Canyon	Long Canyon Diversion	13	154	5	Concrete
5	M.F. American River	Ralston Interbay	75	212	10	Concrete
6	M. F. American River	Ralston Afterbay	90	500	5	Gravel Fill
	Par - 6 (c) - Storage Dams					
2	M.F. American River	French Meadows*	228	2700	5	Composite
3	Rubicon River	Hell Hole	410	1570	20	Rockfill

* Also serves as Diverting Dam

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Supplement to Application 18086

Paragraph 4 - Points of Diversion

Ref. No.	Stream	Diversion	LOCATION California Grid Coordinates, Zone 2 N	E	Quarters	Sec.	TN	RE
	Par. 4 - Points of Diversion							
1	Duncan Creek	Duncan Creek	538,130	2,431,040	NW of SW	24	15	13
2	M.F. American R.	French Meadows	530,100	2,434,250	NW of NE	36	15	13
3	Rubicon River	Hell Hole	510,750	2,452,000	SW of SE	16	14	14
4a	S.F. Long Canyon	Long Canyon	507,675	2,434,250	SW of NE	24	14	13
4b	N.F. Long Canyon	Long Canyon	506,970	2,431,250	NW of SW	24	14	13
5	M.F. American R.	Ralston Interbay	498,137	2,397,300	NW of NE	35	14	12
6	M.F. American R.	Ralston Afterbay	490,160	2,357,100	NW of NW	3	13	11
	Par. 4 - Points of Re-diversion							
2	M.F. American R.	French Meadows	530,100	2,434,250	NW of NE	36	15	13
3	Rubicon River	Hell Hole	510,750	2,452,000	SW of SE	16	14	14
5	M.F. American R.	Ralston Interbay	498,137	2,397,300	NW of NE	35	14	12
6	M.F. American R.	Ralston Afterbay	490,160	2,357,100	NW of NW	3	13	11

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Supplement to Application 18086

Paragraph 2 (a) and (b) - Amount of Water

	Stream	Structure	For Diversion to be directly applied to beneficial use Cubic feet per sec.	For Diversion to be stored and later applied to beneficial use Acre-feet per annum	Name of Reservoir where water will be stored
1	Duncan Creek	Duncan Cr. Diversion	50		French Meadows
2	M. F. American R.	French Meadows Dam and Reservoir	110	10,000	French Meadows
3	Rubicon River	Hell Hole Dam and Reservoir	155	36,000	Hell Hole
4a	S.F. Long Canyon	South Long Canyon Diversion	None	13,000[2]	Hell Hole
4b	N.F. Long Canyon	North Long Canyon Diversion	None	7,000[2]	Hell Hole
6	M.F. American R.	Ralston Afterbay Dam and Reservoir	705	See Note 3	

2 Maximum rate of diversion to storage, 830 cubic feet per second from Long Canyon from South and North Forks.

3 This is a reregulating reservoir- water will be stored and released on daily and weekly schedules.

Water diverted from upper sources comingles with and included in the diversions from lower sources. Maximum to be taken from each source at any particular time will not exceed the amounts shown and the amounts shown (except No. 1 and No. 4) May include up to the full amount of the preceeding diversion.

Supplement to Application 18086

Paragraph 1 - Sources of Appropriation

(1) Duncan Creek
(2) Middle Fork, American River
(3) Rubicon River
(4a) South Fork, Long Canyon
(4b) North Fork, Long Canyon
(5) Middle Fork, American River
(6) Middle Fork, American River

(4a) is tributary to (3)

(4b) is tributary to (4a)

(1) and (3) are tributary to (2) or (5)

(5) and (6) are tributary to the North Fork, American River thence the American River.